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	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY
	(PCT Rule 43bis.1)
	Date of mailing See Form PCT/ISA/210 (dow/manth/year) (sheet 2)
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pplicant's or agent's file reference	See parngraph 2 below
X 22/yh/Al	date (day/month/year) Priority date (day/month/year)
PCT/EP2005/000762 27.01.200	05 02.04.2004
nternational Patent Classification (IPC) or both national classification BOI D63/04, BOI D65/00, CO2F3/	v12, B01 D63/02, C02F1/44
KOCH MEMBRANE SYSTEMS GMBH	
1. This opinion contains indications relating to the following	items:
Box No. 1 Basis of the opinion	
Box No. II Priority	I ladvetelal applicability
Box No. III Non-establishment of opinion w	with regard to novelty, inventive step and industrial applicability
Box No. 1V Lack of unity of invention	1. Assertal
- A Control Control	: 43bis.1(a)(i) with regard to novelty, inventive step or industrial lanations supporting such statement
Box No. VI Certain documents clied	
Box No. VII Certain defects in the internation	onal application
Box No. VIII Certain observations on the int	
than this one to be the IPEA and the chosen IPEA has this International Searching Authority will not be so cor	on is made, this opinion will be considered to be a written opinion of the except that this does not apply where the applicant chooses an Authority of motified the International Bureau under Rule 66.1bis(b) that written opinions natidated.
If this opinion is, as provided above, considered to he written reply together, where appropriate, with amen PCTASA/220 or before the expiration of 22 months from	a written opinion of the arrivation of 3 months from the date of mailing of Fo
For further options, ace Form PCT/ISA/220.	
3. For further details, see notes to Form PCT/ISA/220.	
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Name and mailing address of the ISA/EP	Autorited
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/000762

		INTERNATIONAL SEARCHING AUTHORITY
Box N	va. ì	Bosis of this apinion
L.	With	Bods of this opinion regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
ı	,,,c	language into the tollowing this base
	Ш	This opinion has been established on the basis of a translation from the original tangenge the purposes of international search (under , which is the language of a translation furnished for the purposes of international search (under
	•	Rule 12.3 and 23 1(h)).
2.	With	Rule 12.3 and 23 1(h)). It regard to any nucleotide and/or untino acid sequence disclosed in the international application and necessary to the claimed a regard to any nucleotide and/or untino acid sequence disclosed in the international application and necessary to the claimed a regard to any nucleotide and/or untino acid sequence disclosed in the international application and necessary to the claimed a regard to any nucleotide and/or untino acid sequence disclosed in the international application and necessary to the claimed a regard to any nucleotide and/or until the claimed and the international application and necessary to the claimed a regard to any nucleotide and/or until the claimed and the international application and necessary to the claimed a regard to any nucleotide and/or until the claimed are recognitive.
	n.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
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		contained in the international application as filed.
		filed together with the international application in computer readable form,
		furnished subsequently to this Authority for the purposes of scarch.
3.	Ε	In addition, in the case that more than one version or copy of a sequence listing and/or table(3) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or dues not go beyond the application as filed, as appropriate, were furnished.
4.	, A	additional comments:
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WRITTEN OPINION OF THE

International application No.

WRITTEN OPINION OF THE PCI/EP2005/0007 INTERNATIONAL SEARCHING AUTHORITY PCI/EP2005/0007		PCT/EP2005/000/62
	and Pule 43his 1(a)(1) with regard to novel;	ty, inventive step or industrial applicability;
Box No. V Reasoned statement	nuder Rule 43bis 1(a)(1) with regard to notes, nations supporting such statement	
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J. Statement	1 7 ^	YE
Novelty (N)	Claims 1-10	
	Claims	ИО
	3 30	YE
Inventive step (IS)	Clainn T-TO	NC
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2. Citations and explanations:		ing documents:
1 Reference	is made to the follow:	1119 account to 06 22
	- anombacts of JAPAN V	JOI. 2000, No. 33,
	_ham 2000 (2000-09-22)) & JP 2000 0015.
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oury	GAFUCHI CHEM IND CO	LTD), 7 April 1998
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	3-04-07)	N vol. C11, no. 124
D4: PATE	AT WESTRACTS OF OWEN	(1987-04-17) & JP 61
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26360	05 A (TOSHIBA CORP), 2	1 November 1986 (1986-
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2 Prior ar	vi-m of holding, supp	porting and preventing
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embodim	and when outpended has	n (9, 10) with u-shaped
wode Ed	s a frame construction	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/000762

Box No. V Reusoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

holding brackets (9a) for u-shaped bundles of hollow fibres.

D1 and D2 are directed at the supporting of modules according to the application (hollow fibres only cast in at the bottom).

- 3 Closest prior art
 - Document D1 is considered to be the closest prior art. It discloses (the references between parentheses relate to said document) a membrane filter for operating while submerged, with
 - i) closed hollow fibre membranes (3, 4) cast in at the bottom and free at the top,
 - ii) a base element (6) fastened to a frame and having a permeate collecting chamber,
 - iii) tubes (7, 11), which are connected at both ends and are connected at the top to a collecting line (10) and also
 - iv) fibre holders (7) on the tubes for guiding the hollow fibres

from which the subject matter of independent claim 1 differs in that the fibre holders are not provided in a u-shaped form. According to D1, either a web is used (Figures 4 and 5) or box-shaped frames, which are open on all sides (cf. also D2, figure 3). Although the box-shaped frame likewise has a u-shaped structure (before assembly of the top plate (7)), it is unitary and extends over the entire length of the module.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem addressed by the present invention can therefore be considered that of simplifying the

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCI/EP2005/000762

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structure according to D1 with regard to the effort involved in its assembly and with regard to the ease with which it can be serviced, while it nevertheless has an effective supporting function.

The use of a number of u-shaped brackets that are open on one side according to claim 1 is not disclosed by the prior art. The subject matter of claims 1-10 therefore meets the requirements of PCT Article 33(3). However, the inclusion of essential features in claim 1 pursuant to PCT Article 6 is still required (cf. Box VIII i).

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written opinion of the INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/000762

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- For the precise definition of the position of the web, it appears necessary for the following points in claim 1 to be made more precise, pursuant to PCT Article 6:
 - "... a number of fibre holders... for laterally guiding... to the tubes..." (essential feature);
 - "... which... a web extending between the tubes and tubes..." the to fastened limbs (clarification);
 - also at the ends before the "... reach around... tubes and do not enclose them in an annular manner." (essential feature).
 - Similarly, clarification of claim 2 appears to be ii required, pursuant to PCT Article 6, following form:
 - "projections are formed onto the web of the brackets between the limbs...".
 - The subject matter of claim 3 appears to be clear with the following amendments, pursuant to PCT Article 6:
 - "that the webs of the brackets have on their side limbs a facing away from the projections and profile with depressions and that the limbs and projections forming compartments...".

The second amendment can also be applied to claim 4.